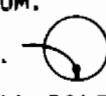
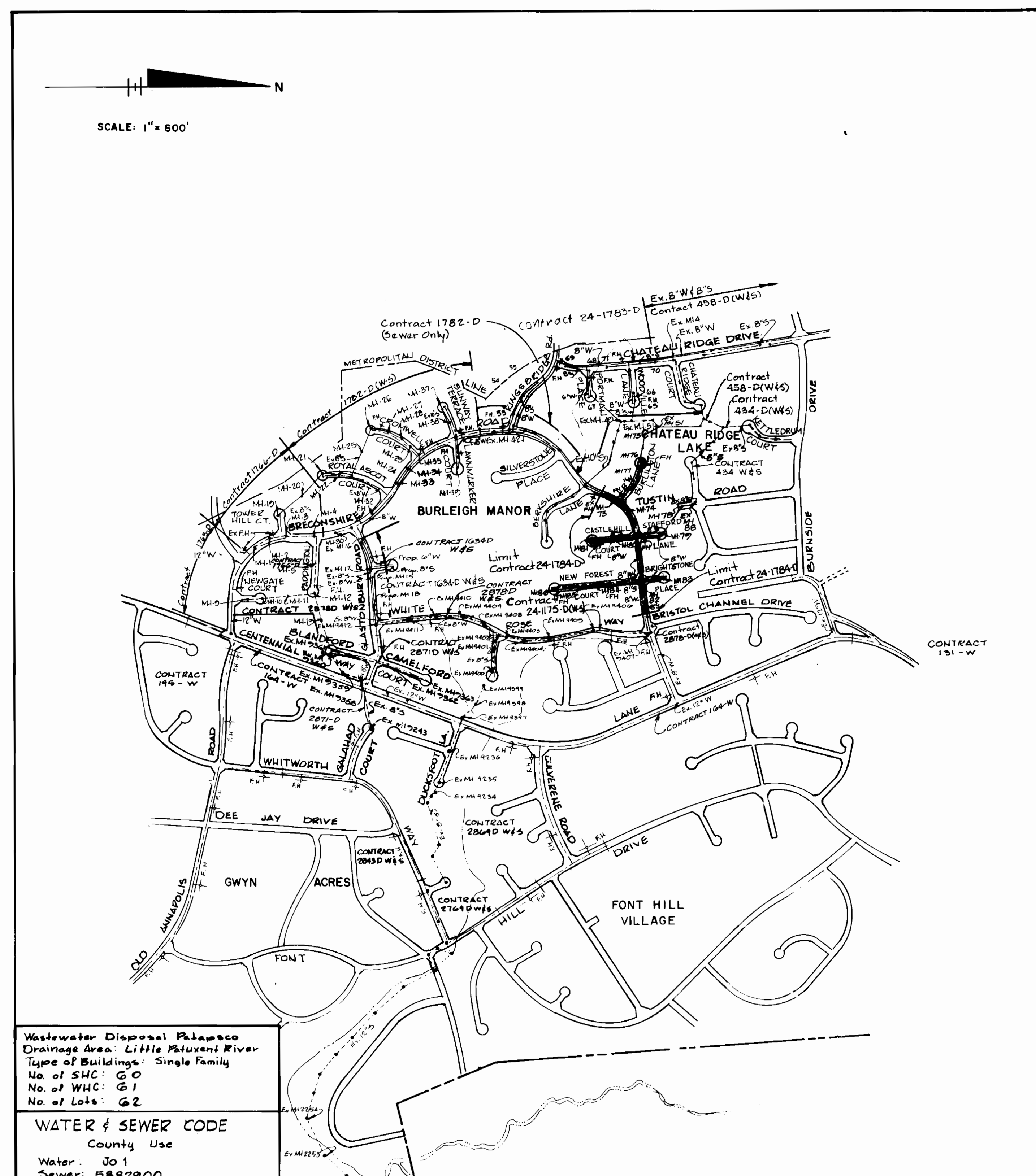


GENERAL NOTES

- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS USED HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL  AT THE LOCATION OF THE TEST PIT. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION. ANY DAMAGE TO EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:  
 STATE HIGHWAY ADMINISTRATION - 531-5533  
 BALTIMORE GAS AND ELECTRIC CO. - CONTRACTOR SERVICES 850-4620  
 BALTIMORE GAS AND ELECTRIC CO. - UNDER GROUND DAMAGE CONTROL - 859-9004  
 BALTIMORE GAS AND ELECTRIC CO. - TROUBLE SHOOTING - 298-9001  
 MISS UTILITY - 1 - 559-0100  
 COLONIAL PIPELINE CO. - 795-1390/C&P TELEPHONE CO. - 1-800-257-7777  
 BUREAU OF UTILITIES HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 992-2366
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO A MAXIMUM EXTENT. TREES AND SHRUBS, LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION.
- ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2' COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE STRAPPED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1003 THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTINGS, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- ALL W.H.C.'S SHALL BE 3/4" UNLESS OTHERWISE NOTED.
- ALL SEWER MAINS SHALL BE C.S.P.X., D.I.P. V.C.P.X., A.C.P. CLASS 2400 OR P.V.C. UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS. STANDARD DETAIL G5.52 WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED. SET TOP OF FRAME 1.5' ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- STRAW BALE DIKE AND SILT FENCE ARE INTERCHANGEABLE.
- FOR MANHOLES IN OPEN SPACE OR OUTFALL, SET TOP OF FRAME 1.5' ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH ANMA SPECIFICATIONS C-153 DUCTILE IRON COMPACT FITTINGS, 3-INCH THROUGH 12-INCH FOR WATER AND OTHER LIQUIDS.
- ALL 1-1/2 INCH DRAINS FOR THE WATER MAIN SHALL BE AS PER W.4.12.
- THE CENTERLINE OF THE SHC SHALL INTERSECT THE CENTERLINE OF THE 8" SANITARY SEWERS.

QUANTITIES			
ITEM	BID	AS BUILT	MATERIAL/SUPPLIER
8" SEWER L.F.	2801 L.F.	2913 L.F.	PUC/J.M. MANUFACTURING CORP.
SEWER MANHOLES	18 EA.	10 EA.	PRE-CAST ATLANTIC PRE-CAST
8" WATER L.F.	2882 L.F.	2870 L.F.	DIP/A&P WATER SUPPLY
6" WATER L.F.	312 L.F.	322 L.F.	DP/A&P WATER SUPPLY
FIRE HYDRANTS Ea.	7 EA.	7 EA.	MUELLER COMPANY
8" VALVE Ea.	5 EA.	5 EA.	MUELLER COMPANY
6" V. (EXCEPT F.H.)	0	---	---
1" W.H.C. L.F.	107 EA.	107 L.F.	COPPER/HOWELL METAL
3/4" W.H.C. L.F.	1,638 L.F.	1,638 L.F.	" " " "
4" SHC L.F.	1,800 L.F.	1,800 L.F.	PUC/J.M. MANUFACTURING CORP.
1 1/2" DRAIN Ea.	2 EA.	2 EA.	COPPER/MUELLER CO.
8" x 6" TEES	7 EA.	7 EA.	DIP/GRIPPIU PIPE
4" D.H.C. TYPE "B"	150 L.F.	150 L.F.	PUC/J.M. MANUFACTURING CORP.



Wastewater Disposal Palawaco  
 Drainage Area: Little Patuxent River  
 Type of Buildings: Single Family  
 No. of SHC: 60  
 No. of W.H.C.: 61  
 No. of Lots: 62

WATER & SEWER CODE  
 County Use  
 Water: J01  
 Sewer: 5882900

# CONTRACT NO. 24-1784-D

## BURLEIGH MANOR

### HOWARD COUNTY, MARYLAND

#### DEPARTMENT OF PUBLIC WORKS

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

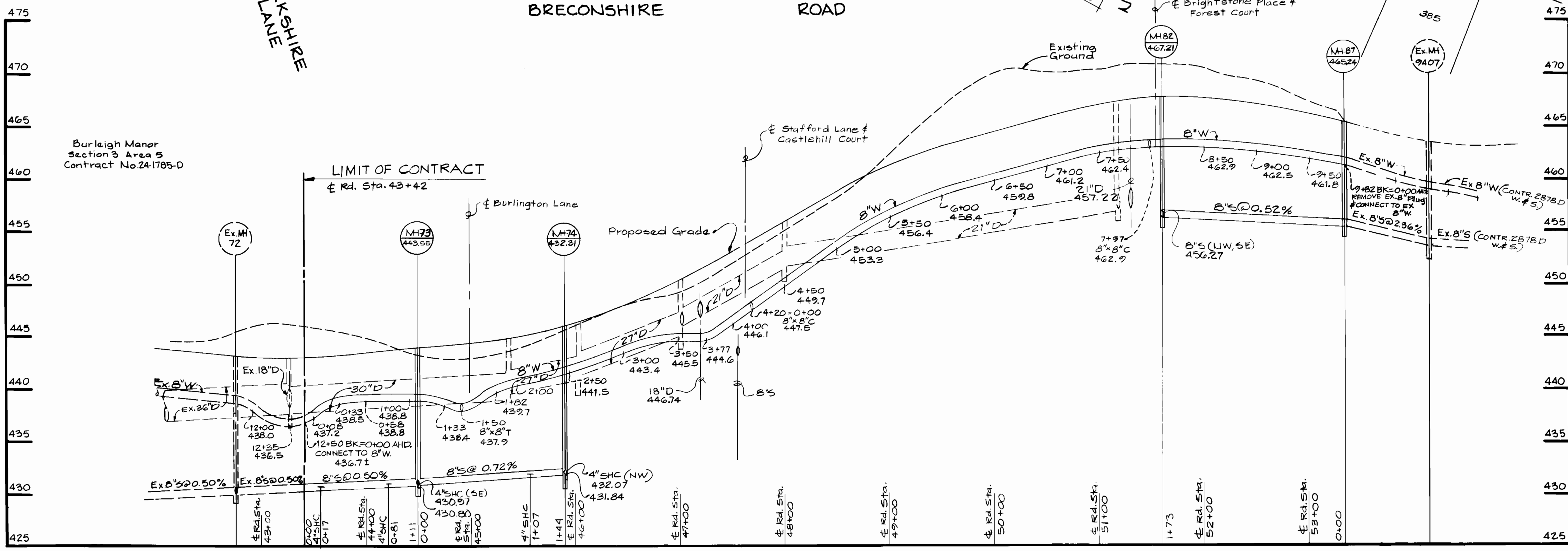
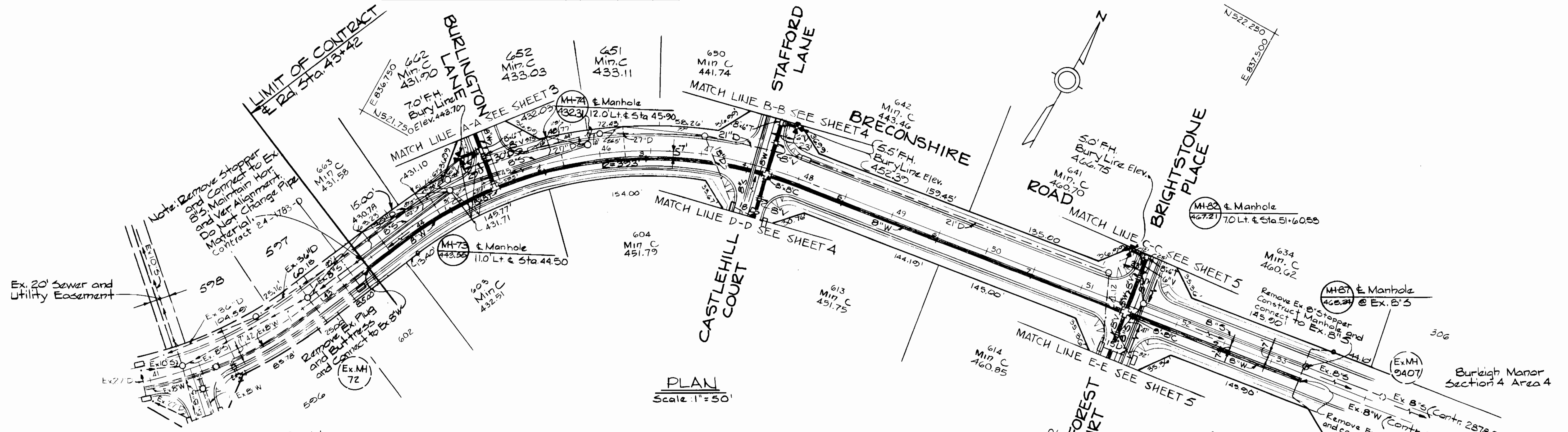
SIGNATURE: *James H. Helm* DATE: 3/1/89  
 U.S. SOIL CONSERVATION SERVICE

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard County Conservation District  
 APPROVED

SIGNATURE: *Stephen L. Brown* DATE: 3/1/89  
 HOWARD S.C.D.

Sediment Control Measures for this Contract will be implemented in accordance with Section 219 of the Standard Specifications and Road Construction Drawings F-89-34

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DIRECTOR OF PUBLIC WORKS - DATE: 3/1/89 Robert B. Berger 2-23-89 CHIEF - BUREAU OF UTILITIES - DATE	WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS 2315 ST. PAUL ST BALTIMORE, MARYLAND	DES: JI/R.S. DRN: R.L.P. CHK: R.B.N. DATE: OCT. 1988	VICINITY MAP AND GENERAL NOTES 60' SCALE MAP NO. 24 BLOCK NO.	BURLEIGH MANOR SECTION 3 AREA 6 ELECTION DISTRICT NO. 2 CONTRACT NO. 24-1784-D	SCALE: 1"=600' SHEET 1 OF 5
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PROFILE

Scale: Horizontal: 1"=50'  
Vertical: 1"=5'

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
3/1/89  
3/2/89

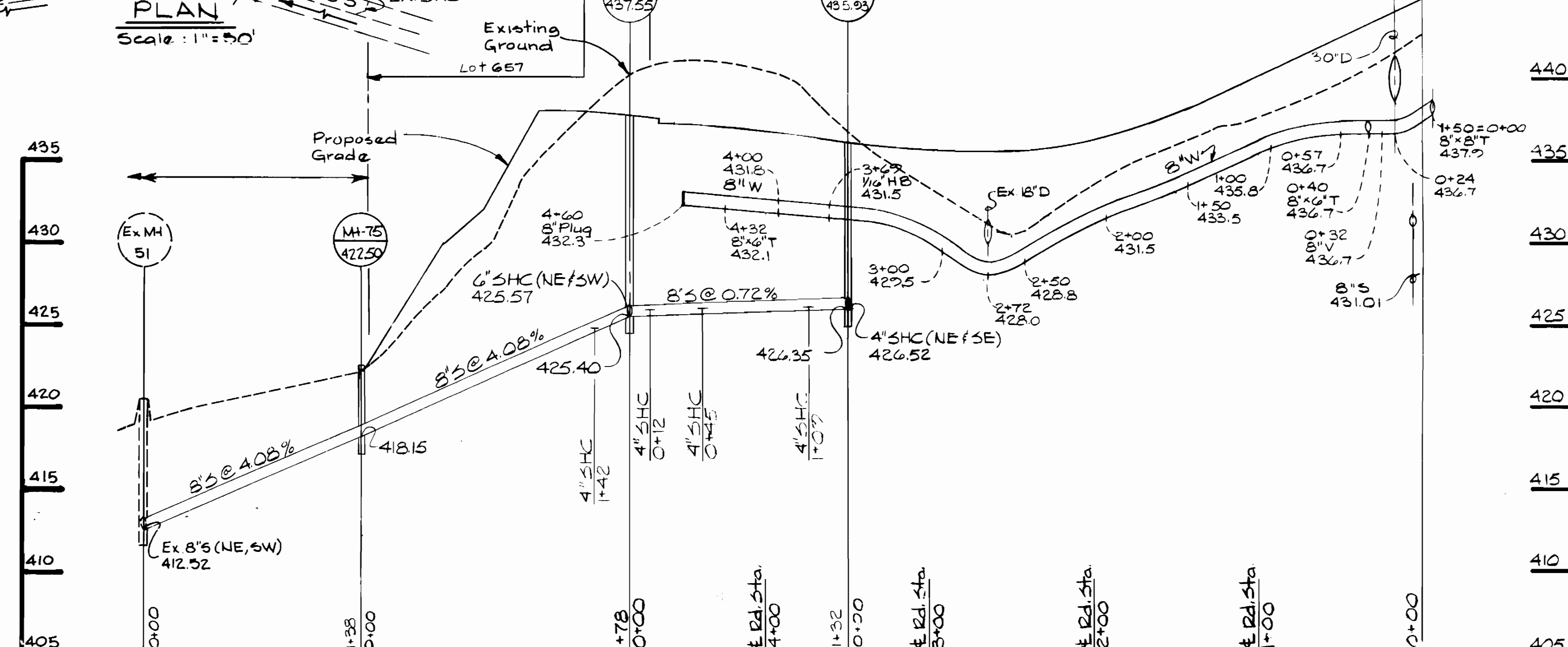
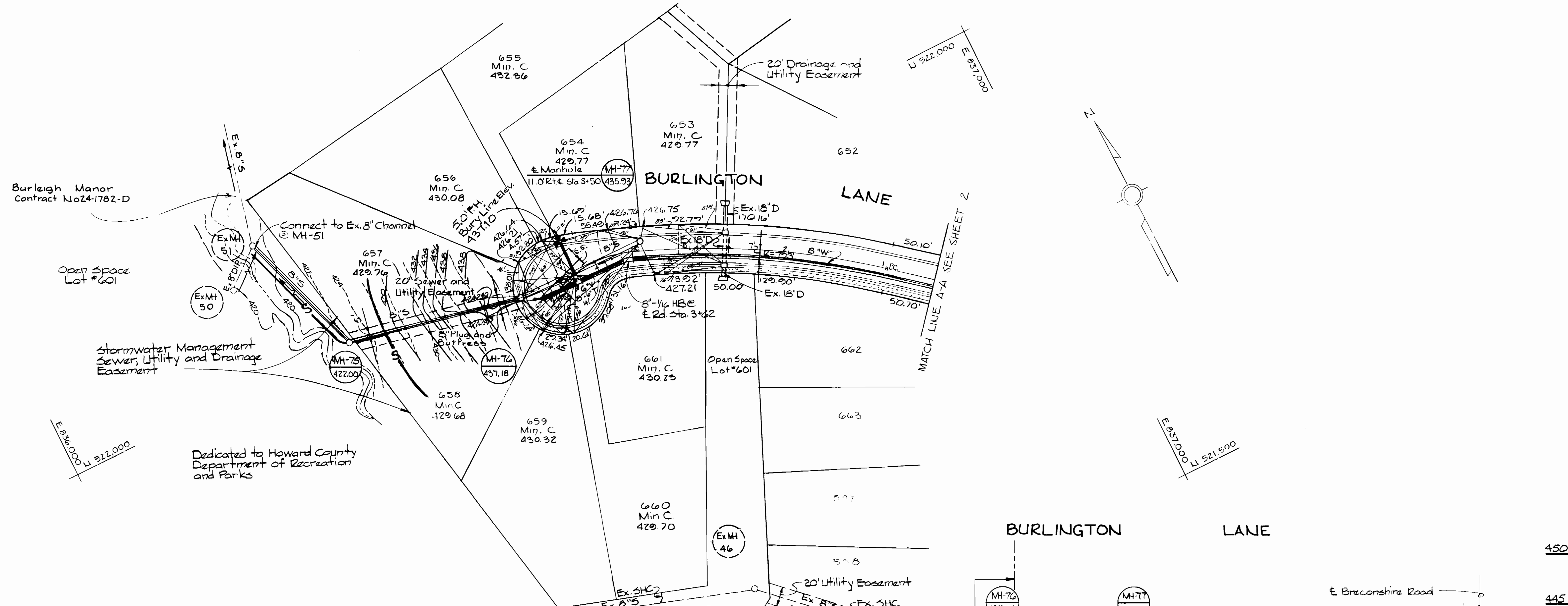
WHITMAN, REQUARDT  
AND ASSOCIATES  
ENGINEERS  
2315 ST PAUL ST  
BALTIMORE, MARYLAND

DES	J.I./J.S.				
DRN	E.B.J.				
CHK	R.B.N.				
DATE	OCT. 1988	J.B.	1	Revised Distances	4/10/89
BY	NO			REVISION	

PLAN & PROFILE OF  
WATER & SEWER MAINS

BURLEIGH MANOR  
SECTION 3 AREA 6  
ELECTION DISTRICT NO.2  
CONTRACT NO. 24-1784-D

SCALE AS SHOWN  
SHEET 2 OF 5



**PROFILE** Scale Horizontal : 1" = 50' Vertical : 1" = 5'

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*James P. Lane* 3/1/89  
DIRECTOR OF PUBLIC WORKS - DATE

*Robert Benjamin* 2-23-89  
CHIEF BUREAU OF UTILITIES - DATE

*James P. Lane* 3-6-89  
CHIEF - BUREAU OF ENGINEERING - DATE

*James P. Lane* 3/3/89  
CHIEF - LAND DEVELOPMENT DIVISION - DATE

WHITMAN, REQUARDT  
AND ASSOCIATES  
ENGINEERS

2315 ST PAUL ST  
BALTIMORE, MARYLAND

DES	J.I./RRS				
DRN	E.B.J.				
CHK	R.B.N.	J.B.	1	Revised Distances	4/1/89
DATE	OCT. 1988	BY	NO	REVISION	DATE

PLAN & PROFILE OF  
WATER & SEWER MAINS

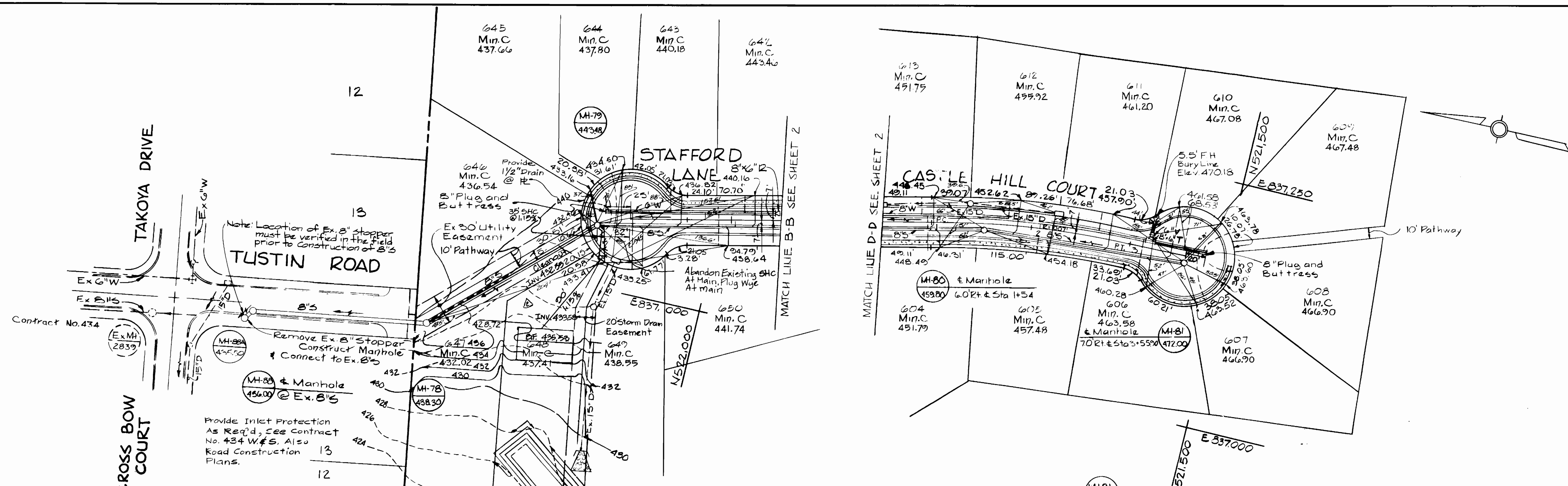
600' SCALE MAP NO. 24 BLOCK NO.

BURLEIGH MANOR  
SECTION 3 AREA 6

ELECTION DISTRICT NO. 2  
CONTRACT NO. 24-1784-D

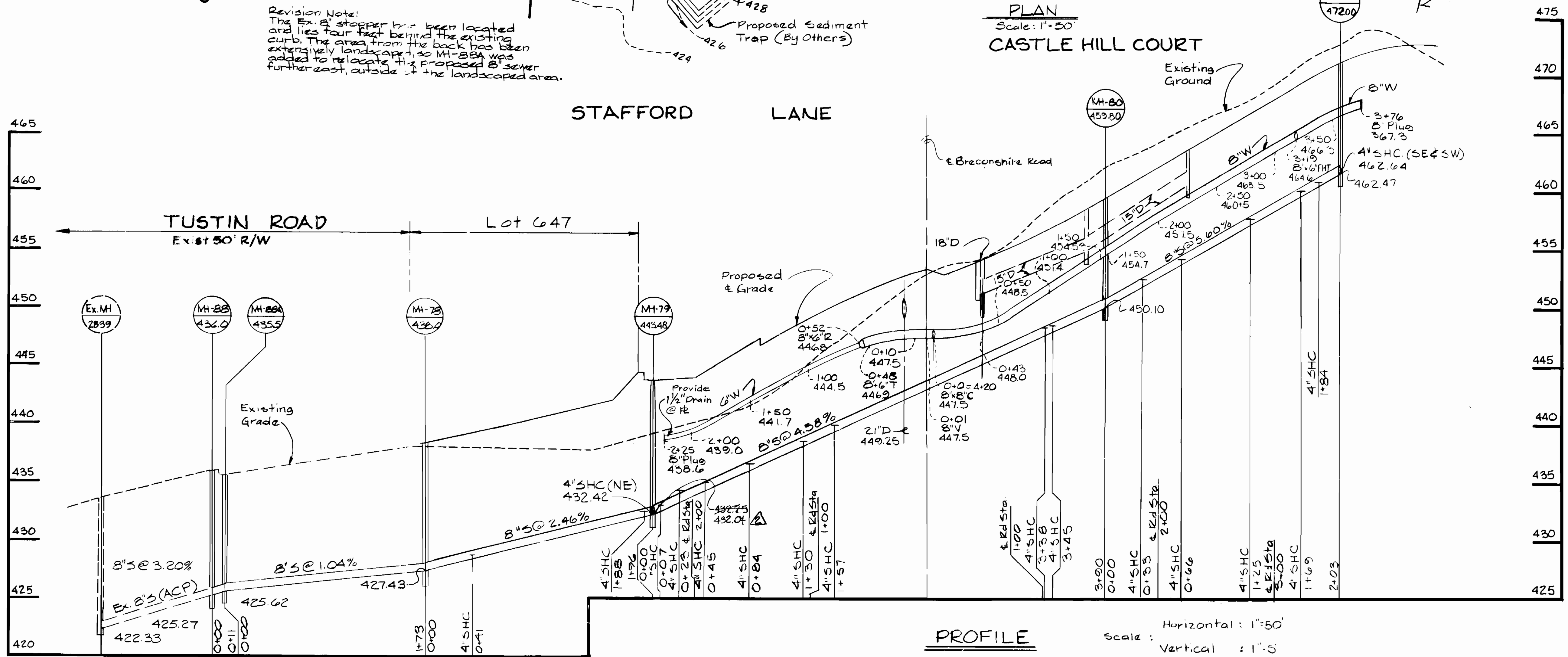
SCALE AS SHOWN

SHEET 3 OF 5



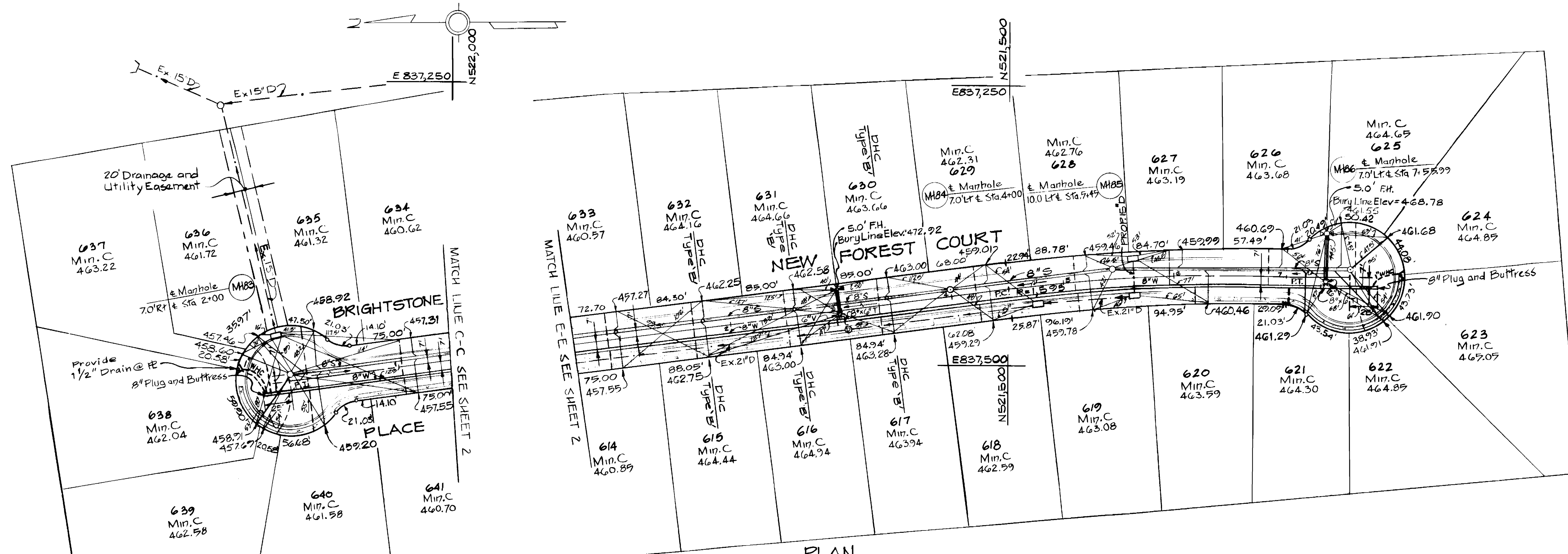
Revision Note:  
The Ex. 8" stopper has been located and lies four feet behind the existing curb. The area from the back has been extensively landscaped, so MH-83A was added to relocate the proposed 8" sewer further east, outside of the landscaped area.

PLAN  
Scale: 1"=50'  
CASTLE HILL COURT

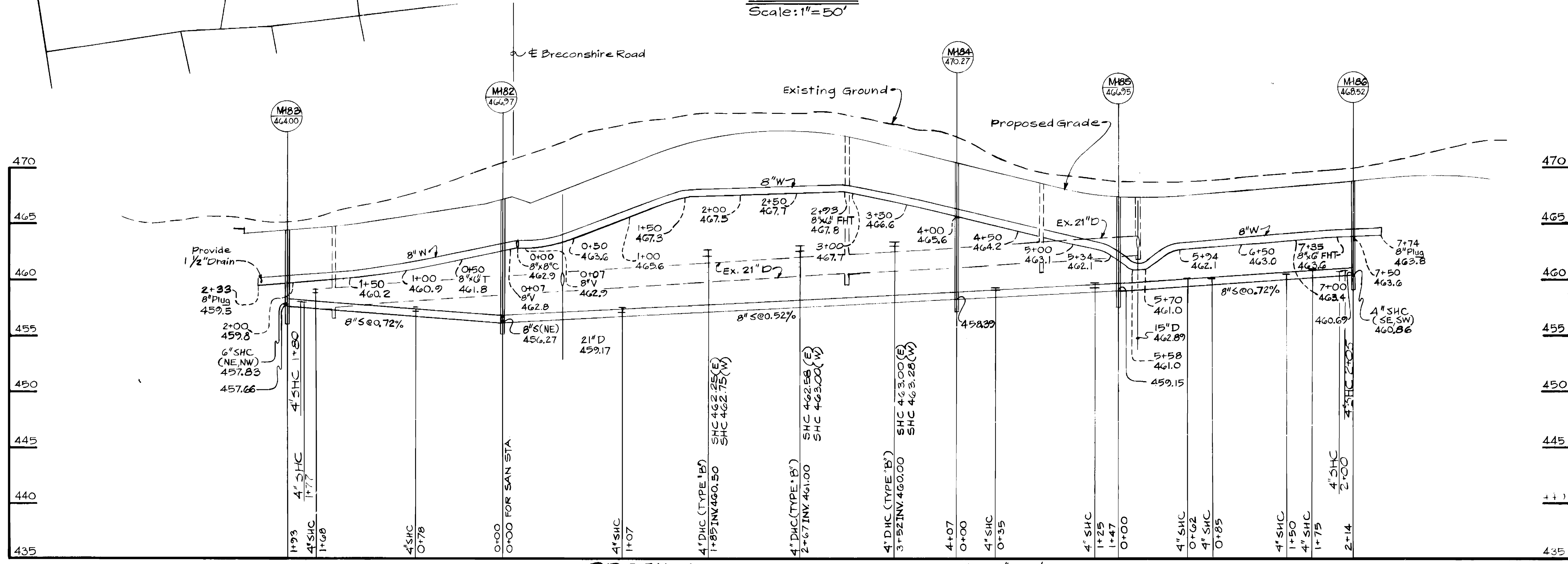


PROFILE  
Scale: Horizontal: 1"=50'  
Vertical: 1"=5'

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director of Public Works - DATE: 1/1/89 Chief - Bureau of Engineering - DATE: 3-6-89 Chief - Bureau of Utilities - DATE: 2-23-89 Chief - Land Development Division - DATE: 3/3/89		WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS 2315 ST PAUL ST BALTIMORE, MARYLAND		DES. J.I./RRS DRN. E.B.J. CHK. R.B.N. DATE OCT. 1988		PLAN & PROFILE OF WATER & SEWER MAINS House Connection Change Lot # 648 Lot Front Distances and Tustin Rd. Sewer 4/1/89		BURLEIGH MANOR SECTION 3 AREA 6 ELECTION DISTRICT NO. 2 CONTRACT NO. 24-1784-D		SCALE AS SHOWN SHEET 4 OF 5	
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PLAN  
Scale: 1"=50'



BRIGHTSTONE PLACE PROFILE Scale: Horizontal: 1"=50', Vertical: 1"=5' NEW FOREST COURT

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*James J. ...* 2/23/89  
DIRECTOR OF PUBLIC WORKS - DATE

*Richard ...* 2/23/89  
CHIEF - BUREAU OF UTILITIES - DATE

*William ...* 3/3/89  
CHIEF - BUREAU OF ENGINEERING - DATE

*James ...* 3/3/89  
CHIEF - LAND DEVELOPMENT DIVISION - DATE

WHITMAN, REQUARDT  
AND ASSOCIATES  
ENGINEERS

2315 ST PAUL ST  
BALTIMORE, MARYLAND

DES	J.T./R.S.				
DRN	E.B.J.				
CHK	R.B.N.				
DATE	OCT. 1988	BY	NO.	REVISION	DATE
				1B 1 Revised Distances	4/18/89

PLAN & PROFILE OF  
WATER & SEWER MAINS

600' SCALE MAP NO. 24 BLOCK NO. \_\_\_\_\_

BURLEIGH MANOR  
SECTION 3 AREA 6

ELECTION DISTRICT NO.2  
CONTRACT NO. 24-1784-D

SCALE  
AS  
SHOWN

SHEET  
5 OF 5